	Application No.	Applicant(s)
Notice of Allowability	09/673,739	MCCARTHY ET AL.
	Examiner	Art Unit
	Joyce Tung	1637
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	6 (OR REMAINS) CLOSED in) or other appropriate commu RIGHTS. This application is s	n this application. If not included unication will be mailed in due course. THIS
1. This communication is responsive to <u>8/21/06</u> .		
2. X The allowed claim(s) is/are claims 1-21 and 23 (final claim	<u>ıs 1-22)</u> .	
 Acknowledgment is made of a claim for foreign priority u All Some* None Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). 	e been received. e been received in Applicatio	n No
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subm	MENT of this application.	
INFORMAL PATENT APPLICATION (PTO-152) which giv		
5. CORRECTED DRAWINGS (as "replacement sheets") mu		
(a) including changes required by the Notice of Draftsper		v (PTO-948) attached
1) hereto or 2) to Paper No./Mail Date	_	
(b) including changes required by the attached Examiner Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t	 1.84(c)) should be written on the the header according to 37 CF 	ne drawings in the front (not the back) of R 1.121(d).
 DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT 	osit of BIOLOGICAL MATE FOR THE DEPOSIT OF BIO	ERIAL must be submitted. Note the DLOGICAL MATERIAL.
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 □ Notice of Int	formal Patent Application
 Notice of Neiterences Gled (P10-092) Dotice of Draftperson's Patent Drawing Review (PT0-948) 		ummary (PTO-413),
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date:	Paper No./	Mail Date <u>9/28/06</u> . Amendment/Comment
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's 9. ☐ Other	Statement of Reasons for Allowance
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EXAMINER'S AMENDMENT

The applicant's response filed 8/21/06 to the Office action has been entered. Claims 1-21 and 23 are pending.

- 1. An extension of time under 37 CFR 1.136(a) is required in order to make an examiner's amendment which places this application in condition for allowance. During a telephone conversation conducted on 9/28/06, the attorney requested an extension of time for two MONTH(S) and authorized the Director to charge Deposit Account No. 02-2448 the required fee of \$ 225.00 for this extension and authorized the following examiner's amendment. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
- 2. The application has been amended as follows:

In claim 1, step iv), last line, delete "the upstream fragment" and substitute – said upstream DNA fragment --, and after "analyzing resultant fragment(s), insert – to detect the presence or absence of a mutation --.

3. The following is an examiner's statement of reasons for allowance:

Concerning claims 1-21 and 23, no prior art has been found teaching or suggesting the method for characterizing nucleic acid molecules which comprises the step of incubating the released extendible upstream DNA fragment in the presence of an enzyme allowing for extension thereof and a selected template nucleic acid, which has partial or full sequence complementary to said upstream DNA fragment and analyzing resultant fragment to detect the presence or absence a mutation in the cleaved fragment.

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The closest prior art is the reference of Chirikjian et al. (5,656,430, issued August 12, 1997). Chirikjian et al. disclose a method for detecting point mutation in nucleic acid sequence in which 5' probe cleaved and binds to a template for DNA polymerase with dNTP (See column 8, lines 47-50) and a probe is hybridized to single stranded DNA generating a mismatch in the ssDNA and the new strand is synthesized in vitro with DNA polymerase and ligase (See column 4, lines 7-12). However, Chirikjian et al. do not disclose the released extendible upstream DNA fragment in the presence of an enzyme allowing for extension with a selected template nucleic acid, which has partial or full sequence complementary to said upstream DNA fragment.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joyce Tung whose telephone number is (571) 272-0790. The examiner can normally be reached on Monday - Friday, 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gary Benzion can be reached on 571 272-0782. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Joyce Tung J September 28, 2006

KENNETH R. HORLICK, PH.D PRIMARY EXAMINER

9/28/06